

### **Section 01 Identification**

Info furnished by: Fry Technology  
Address: 4100 Sixth Avenue  
Altoona, PA 16602  
Date Effective: 3/31/97  
Emergency Phone: (814) 946-1611  
Chemtrec 800-424-9300 (Use only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.)  
Product or Trade Name Acid Cored Solder Wires  
Person to Contact Darren Cuppett / Jack Wagner

### **Section 02 Constituents**

Chem	CAS	%WT	Carcinogen	TLV ACGIH	OSHA PEL
Tin	7440-31-5	The product contains one or more of these metals	No	2.0mg/cu m	2.0mg/cu m (inorganic compounds except oxides)
Lead	7439-92-1	in various	Yes	0.05mg/cu m	0.05mg/cu m
Silver	7440-22-4	percentages.	No	0.1mg/cu m	0.01mg/cu m (dust & fume)
Bismuth	7440-69-9	" " "	No	None Estab.	None Estab.
Indium	7440-74-6	" " "	No	0.1mg/cu m	0.1 mg/cu m
Antimony	7440-36-0	" " "	No	0.5mg/cu m	0.5mg/cu m
Zinc Chloride	7646-85-7	1-4	No	1mg/cu m (fume)	1mg/cu m (fume)
Water	7732-18-5	0-1	No	None Estab.	None Estab.

This product contains a chemical subject to SECTION 313 of SARA Title III. IARC classifies lead and some lead compounds as Group 2B carcinogens (possibly carcinogenic to humans). This classification based primarily on carcinogenicity of certain soluble lead salts in lab animals. Neither lead nor its insoluble salts appear to be carcinogenic to humans or lab animals.

WARNING: This product contains a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

### **Section 03 Physical Data**

Melting Point	Depends on alloy composition
Boiling Point	N/A
Vapor Pressure	N/A
Vapor Density (air is 1)	N/A
Solubility in Water	Flux is water-soluble
Appearance & Color	Silver grey wire
Specific Gravity	Depends on alloy and flux
Odor	NIL
% Volatile	N/A
pH	N/A
Evaporation Rate (nBuAc=1)	N/A

#### **Section 04 Fire & Explosion Hazard Data**

Flash Point/Method Used	N/A
Flammable	N/A
Extinguishing Media	N/A
Fire-fighting equipment	Wear self-contained breathing equipment if product is involved in a fire.
Special precautions	When heated to high temperatures, lead emits toxic fumes.

#### **Section 05 Reactivity Data**

Stability:	Stable
Conditions to avoid:	None
Hazardous Polymerization:	None
Conditions to avoid:	None
Incompatibility:	Oxidizers, strong acids.

Hazardous Decomposition Products: The fumes emitted in a soldering operation may contain zinc chloride.

#### **Section 06 Spill, Leak and Disposal Procedures**

Action to take for Spills/Leaks:	If molten, allow to cool and solidify then scrape up.
Disposal Method:	Return for reprocessing of metal.

#### **Section 07 Health Hazard Data**

Eye:	Flux fumes may be severe irritant.
Skin Contact:	Molten solder will cause burns. Exposure to flux will cause burns and ulceration.
Skin Absorption:	Not known to be absorbed through skin.
Ingestion:	Unlikely to occur. Lead is toxic and can cause internal injury and affect kidneys and liver.
Inhalation:	Flux fumes may irritate mucosal surfaces. Excessive exposure could lead to internal ulceration or burns. Overexposure to lead is unlikely as significant fume is not produced below 700° F. Prolonged overexposure to lead may cause damage to CNS and kidneys. Overexposure to tin, silver, antimony, indium and bismuth is not expected.
General:	Inorganic tin compounds are irritants of the eyes and skin. No systemic effects have been reported from industrial exposure.

### **Section 08 First Aid Procedures**

Eyes:	Remove from exposure, flush eyes with water 10 minutes. Get medical attention.
Skin:	For burns, cool with cold water and get medical attention.
Ingestion:	Get medical attention immediately.
Inhalation:	Remove to fresh air. If breathing is difficult, administer oxygen and get medical attention.

### **Section 09 Special Handling Information**

Ventilation:	Required to prevent operators breathing fumes during soldering.
Respiratory Protection:	Required if TLV's are not being maintained. Use fume masks.
Eye Protection:	Wear face shield or goggles during soldering.
Skin Protection:	Not usually necessary.

### **Section 10 Special Precautions & Additional Information**

Storage:	No special requirements.
Hygiene:	No food, drink or tobacco should be allowed where core solder is used. Wash hands thoroughly after handling core solder and before eating, drinking or smoking or applying cosmetics.
Labeling:	Lead warning labels (if applicable). Keep out of reach of children. For Industrial Use Only. DO NOT TAKE INTERNALLY.

### **Section 11 Hazard Rating**

Health - 2  
Flammability - 0  
Reactivity - 0  
Special Hazard -

The information is given in good faith, but no warranty, express or implied, is made.